

FIG. 2A

$\begin{matrix} x \\ y \end{matrix}$	1/16	-3/16	10/16	10/16	-3/16	1/16
1/16	1/256	-3/256	10/256	10/256	-3/256	1/256
-3/16	-3/256	9/256	-30/256	-30/256	9/256	-3/256
10/16	10/256	-30/256	100/256	100/256	-30/256	10/256
10/16	10/256	-30/256	100/256	100/256	-30/256	10/256
-3/16	-3/256	9/256	-30/256	-30/256	9/256	-3/256
1/16	1/256	-3/256	10/256	10/256	-3/256	1/256

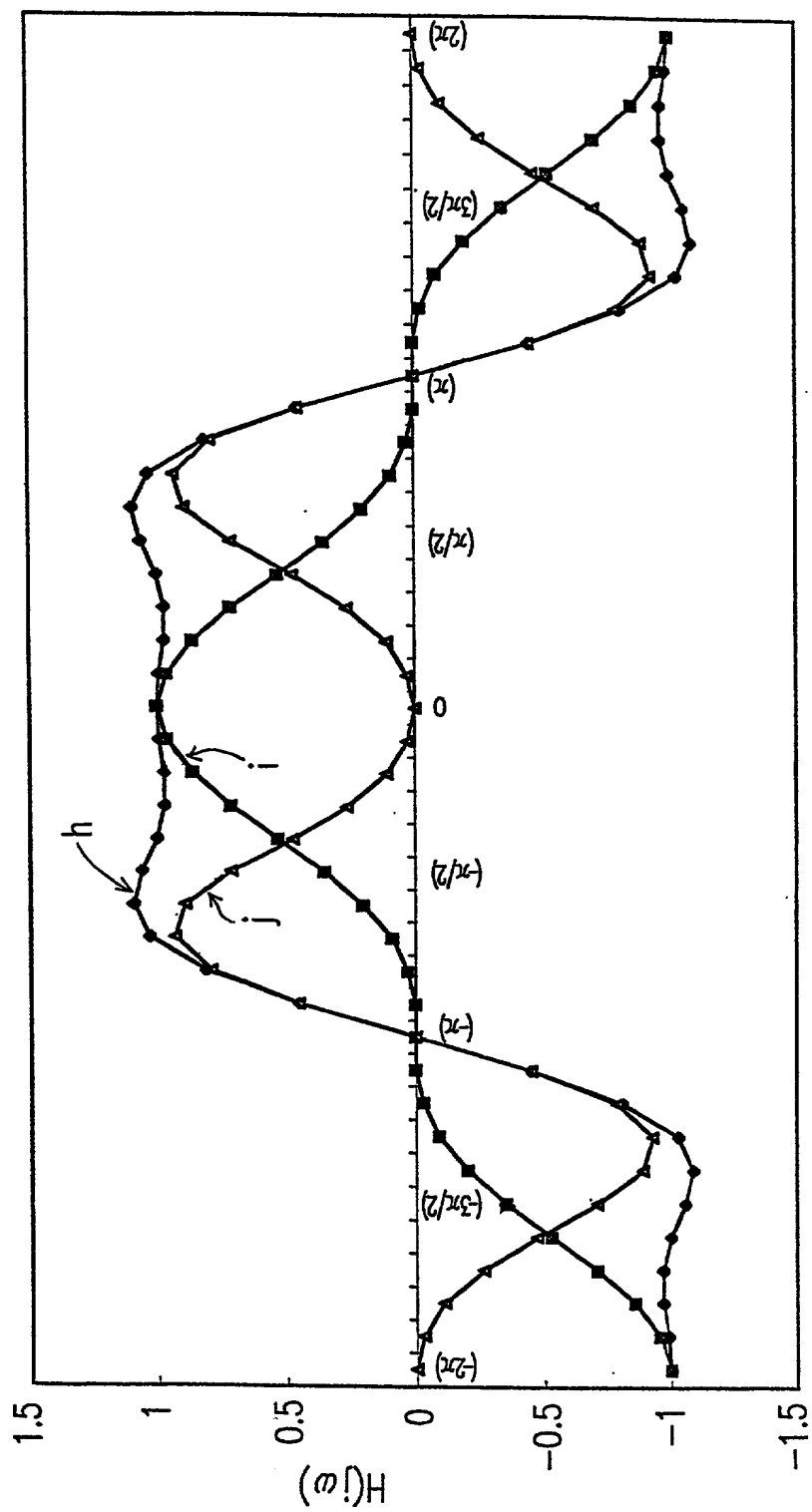
First YH extraction filter F1

FIG. 2B

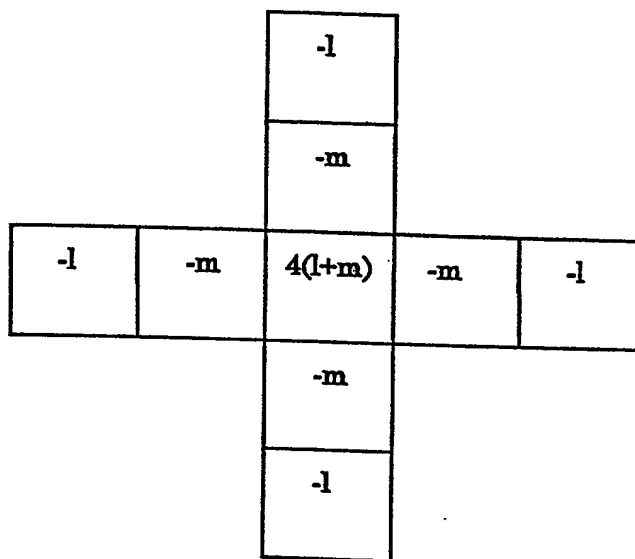
$\begin{matrix} x \\ y \end{matrix}$	1/8	3/8	3/8	1/8
1/8	1/64	3/64	3/64	1/64
3/8	3/64	9/64	9/64	3/64
3/8	3/64	9/64	9/64	3/64
1/8	1/64	3/64	3/64	1/64

Second YH extraction filter F2

FIG.3



$\omega$

*FIG. 4*

*FIG. 5A*

$y \backslash x$	1/4	3/4	3/4	1/4
1/4	1/16	3/16	3/16	1/16
3/4	3/16	9/16	9/16	3/16
3/4	3/16	9/16	9/16	3/16
1/4	1/16	3/16	3/16	1/16

RB-interpolation filter

*FIG. 5B*

$y \backslash x$	1/4	3/4	3/4	1/4
1/8	1/32	3/32	3/32	1/32
3/8	3/32	9/32	9/32	3/32
3/8	3/32	9/32	9/32	3/32
1/8	1/32	3/32	3/32	1/32

G-interpolation filter

(Operation in x-direction has priority  
over operation in y-direction)

*FIG. 6*

-1	1	1	-1
----	---	---	----

 (A)

-1	2	-1
----	---	----

 (B)

-1	0	2	0	-1
----	---	---	---	----

 (C)

-2	1	2	1	-2
----	---	---	---	----

 (D)

-1	-1	4	-1	-1
----	----	---	----	----

 (E)

1	-5	4	4	-5	1
---	----	---	---	----	---

 (F)

1	3	3	1
---	---	---	---

 (G)

One-dimensional filter



FIG. 8

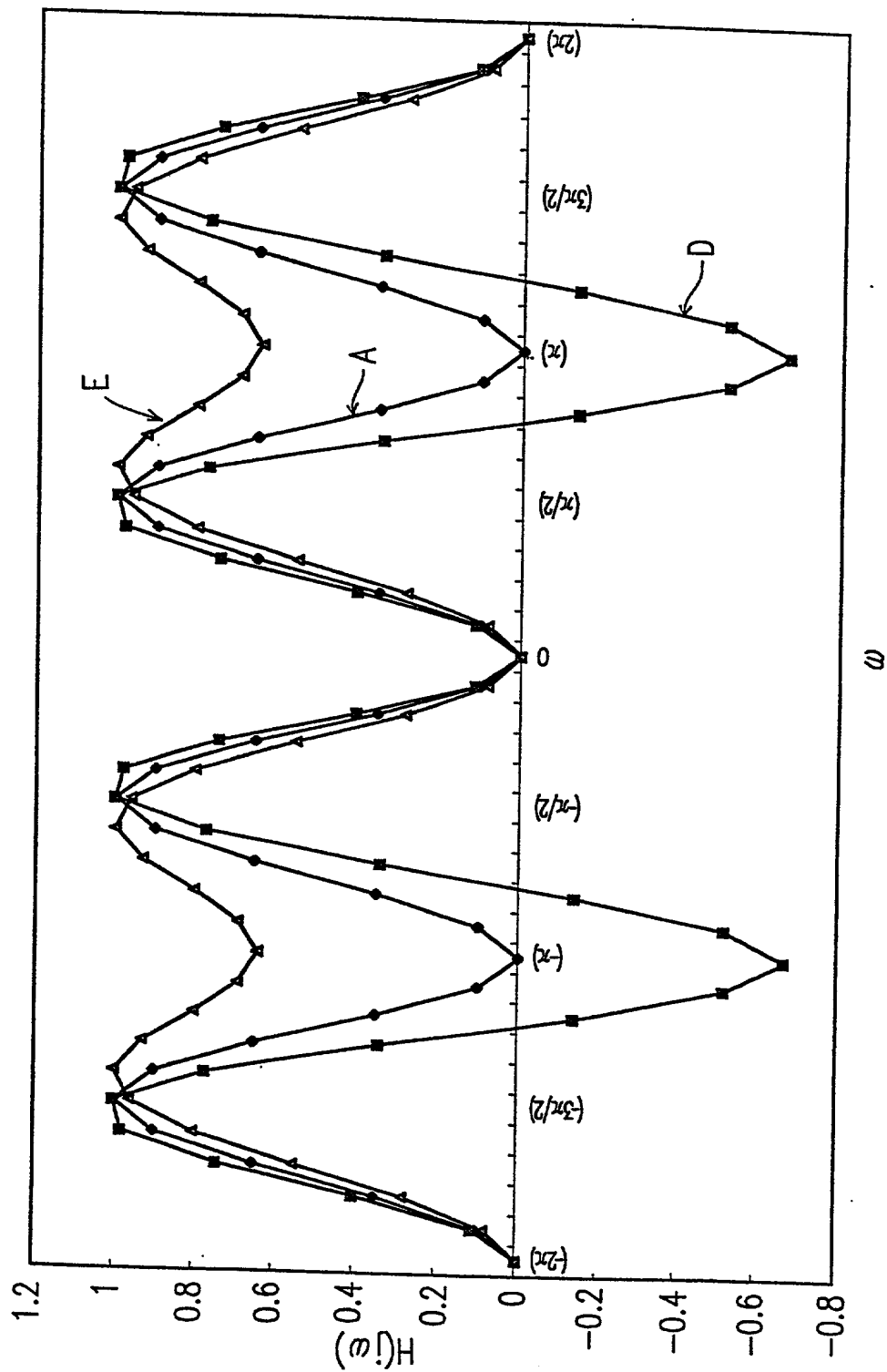
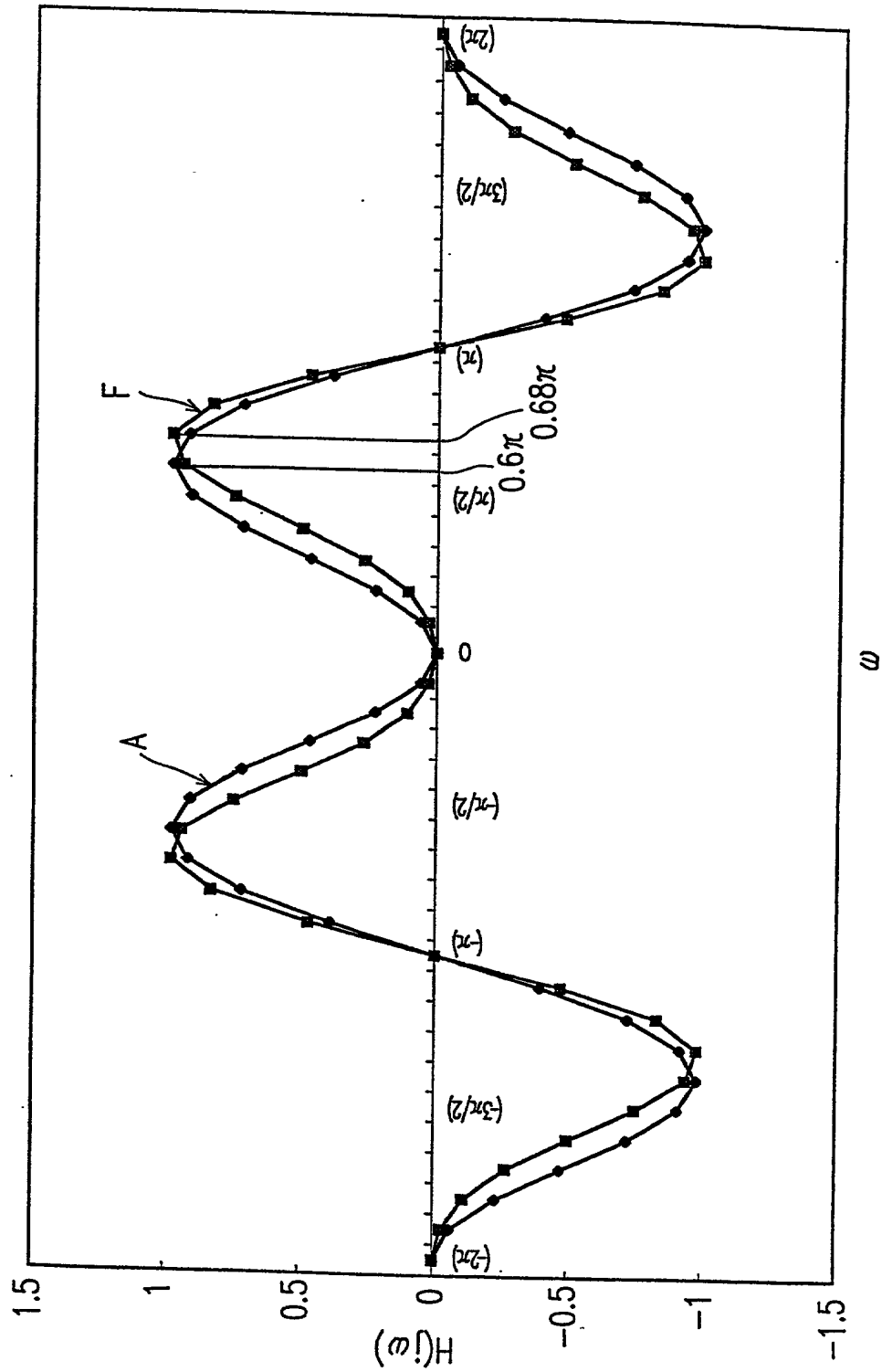




FIG. 9



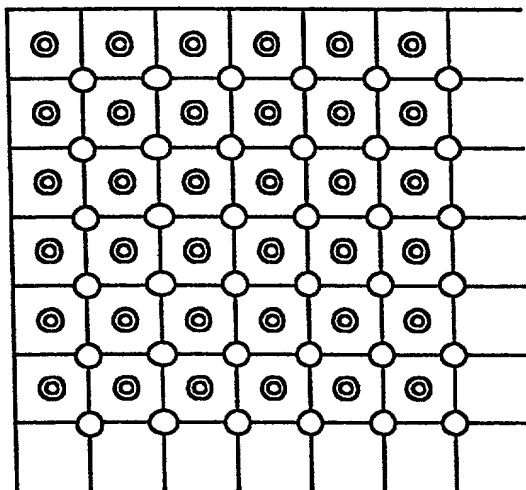
*FIG. 10*

FIG. 11

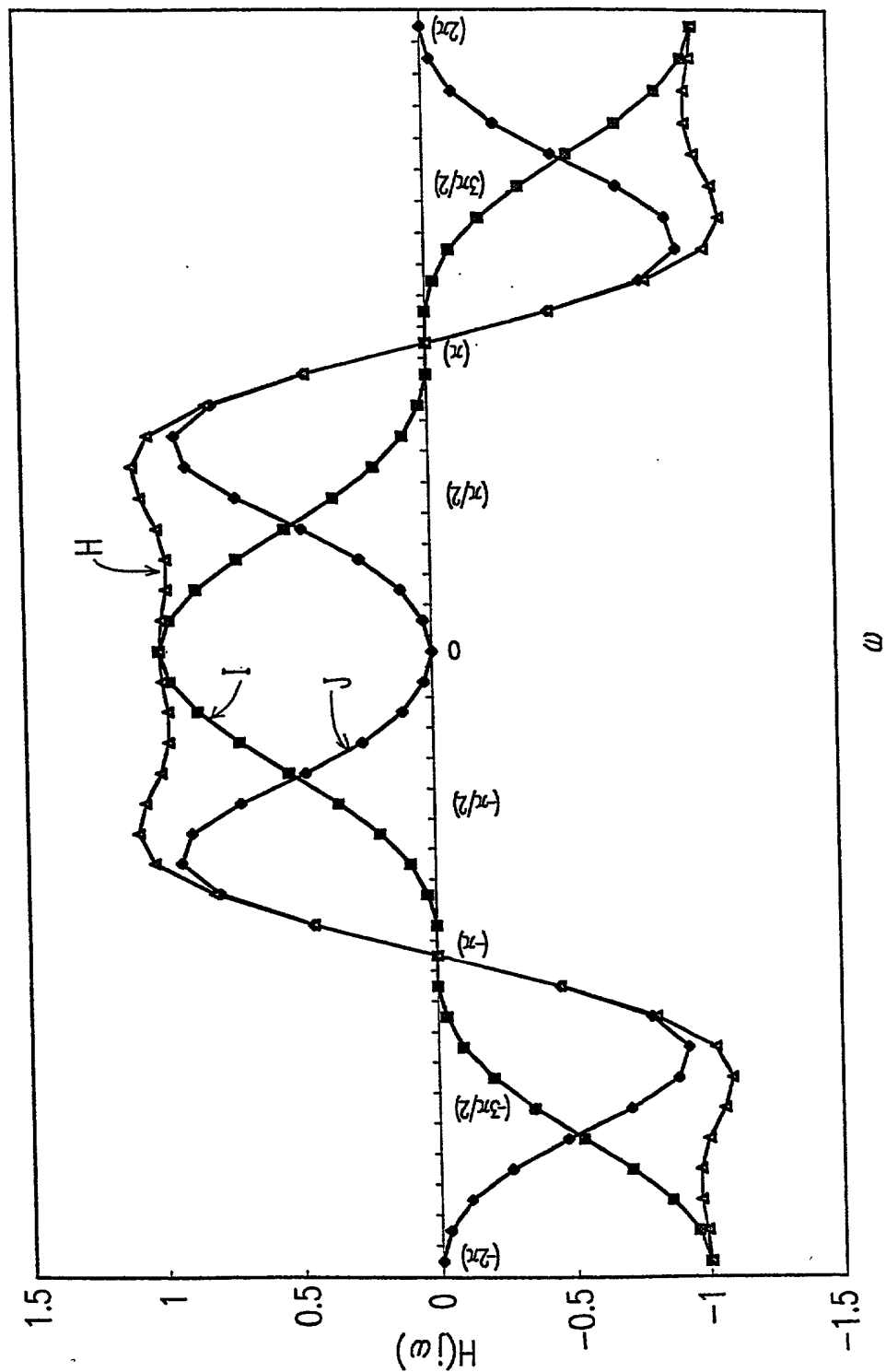


FIG. 12

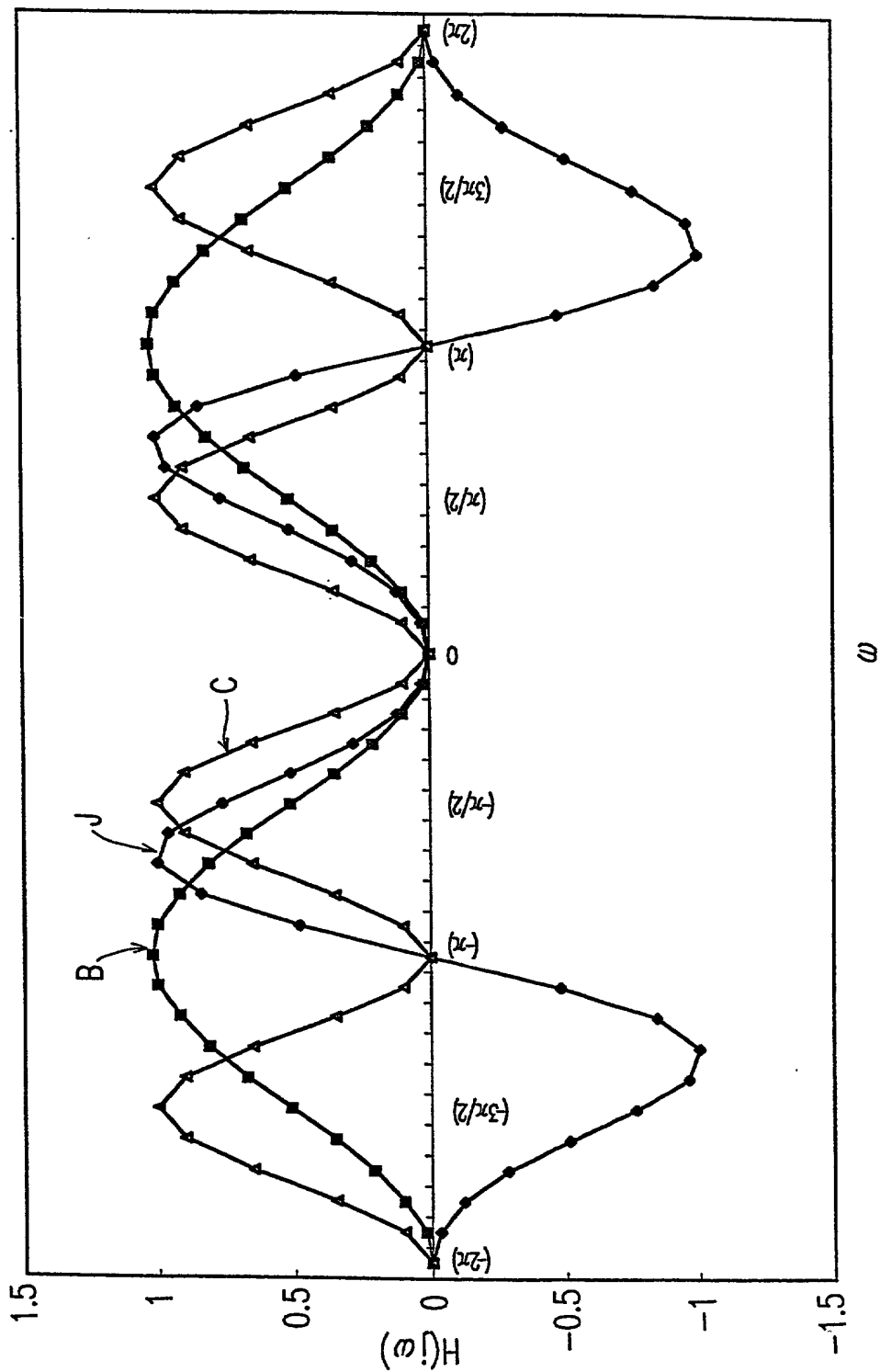


FIG. 13

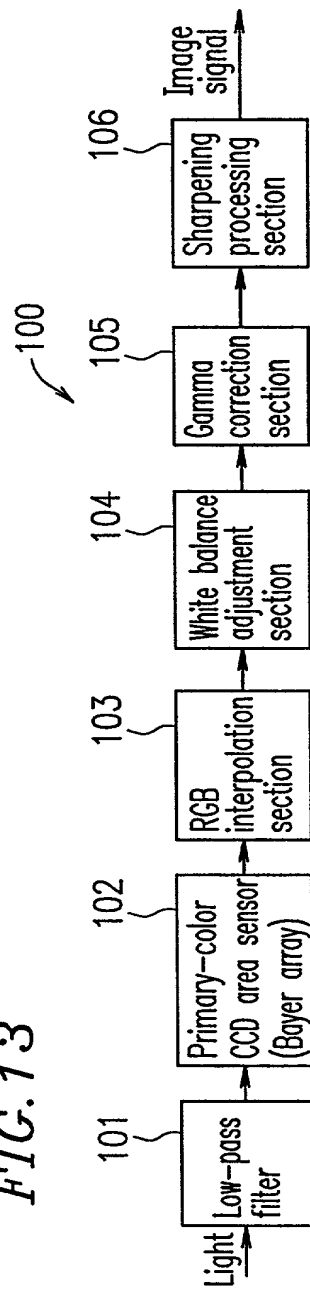


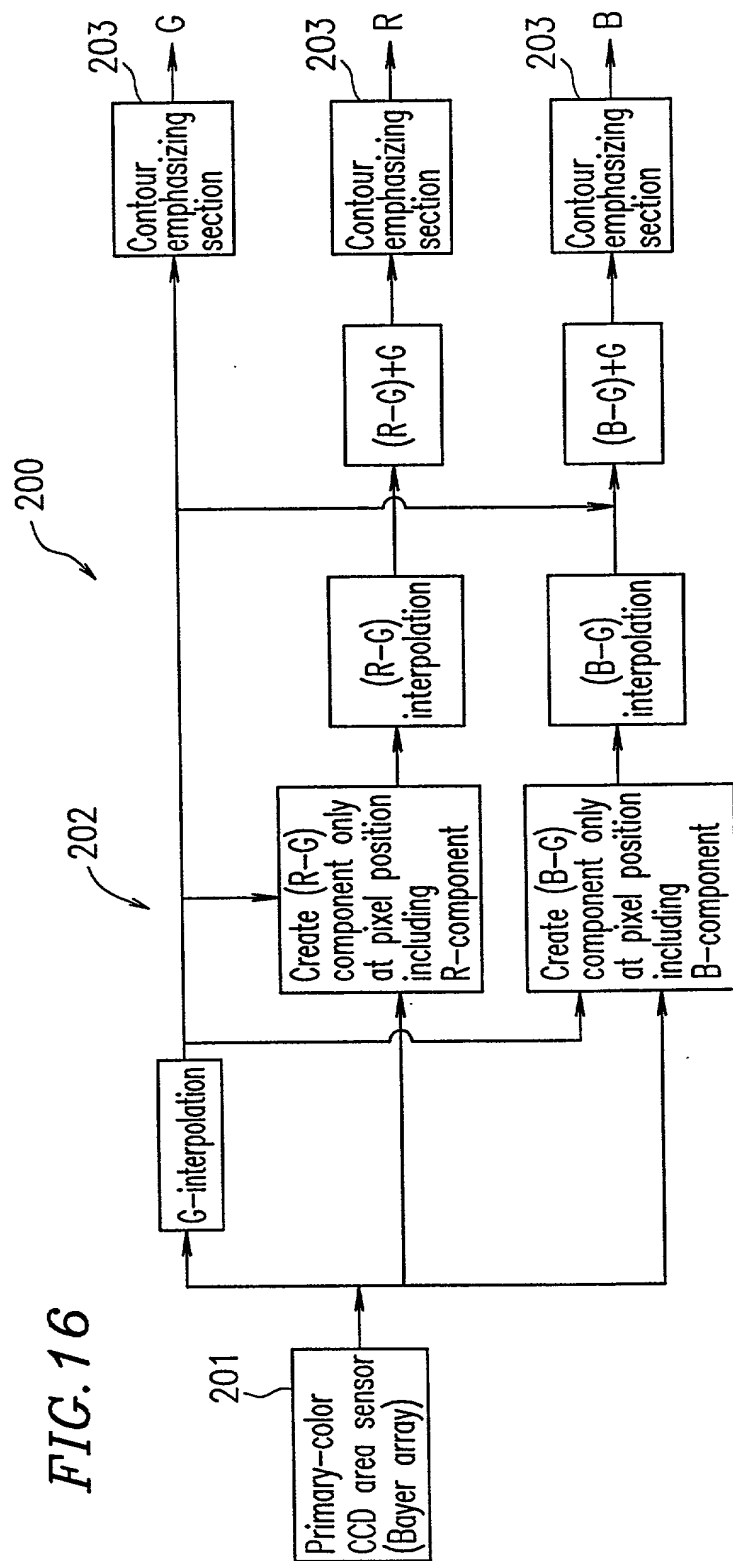
FIG. 14

$$\begin{array}{c} \Delta y \\ \hline \begin{array}{c} \searrow \\ \Delta y \\ \nearrow \end{array} \end{array} \begin{array}{c} \Delta x \\ \hline \begin{array}{c} \searrow \\ \Delta x \\ \nearrow \end{array} \end{array}$$

R	G	R	G	R	G
G	B	G	B	G	B
R	G	R	G	R	G
G	B	G	B	G	B
R	G	R	G	R	G
G	B	G	B	G	B

FIG. 15

B1	G2	B3
G4	R5	G6
B7	G8	B9



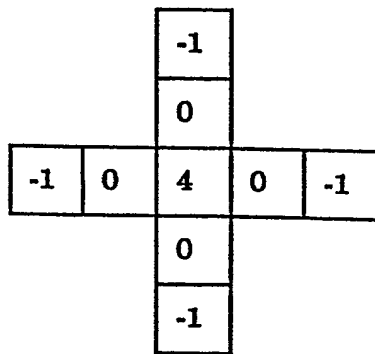
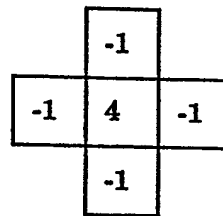
*FIG. 17A**FIG. 17B*





FIG. 19

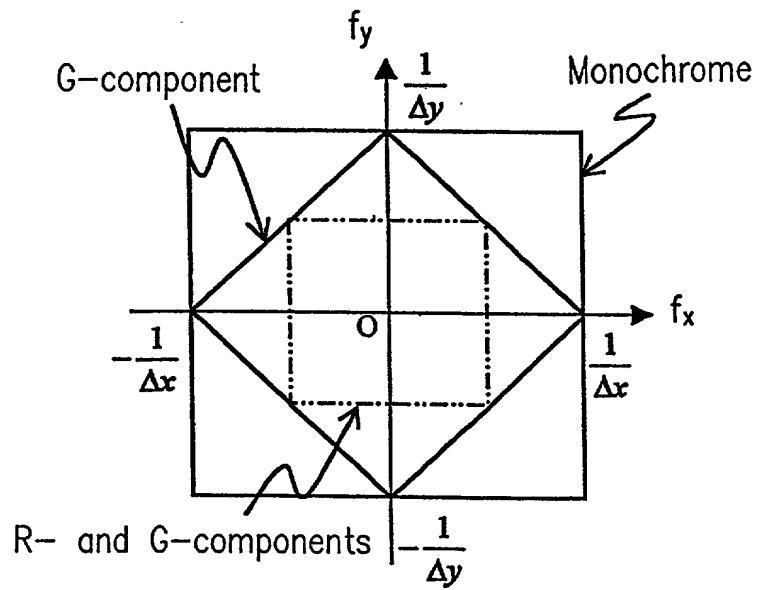


FIG. 20

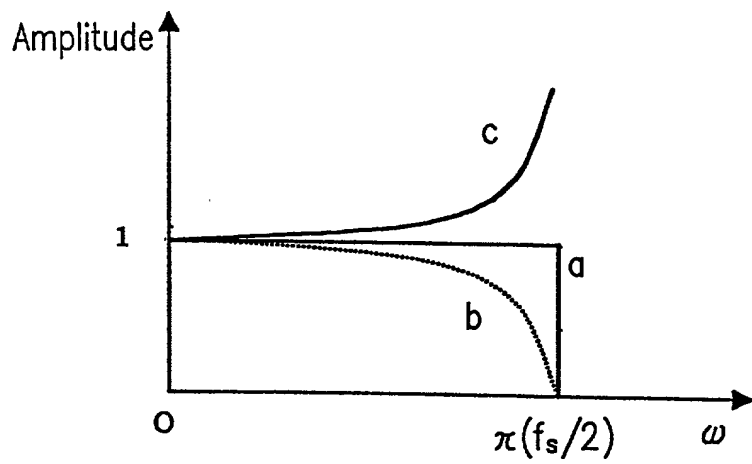
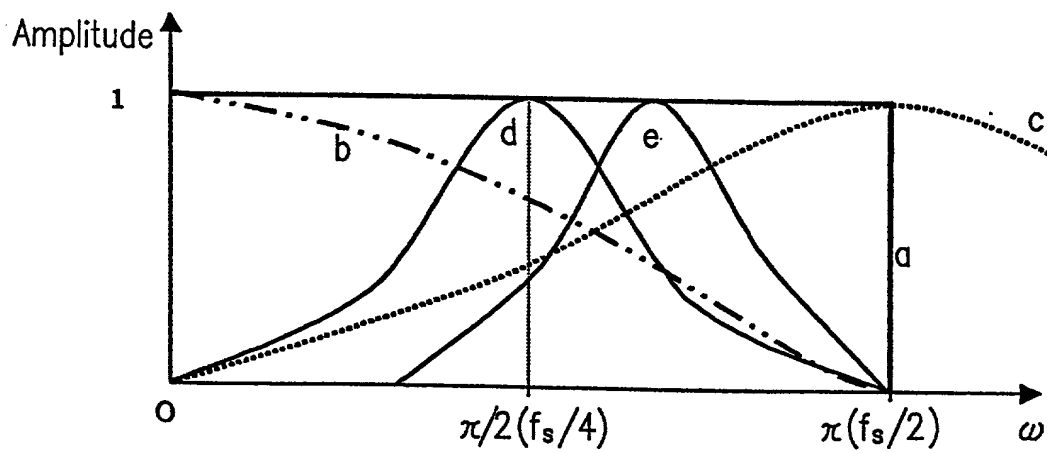


FIG. 21



*FIG. 22*

1/256	-3/256	10/256	10/256	-3/256	1/256
-3/256	5/256	-42/256	-42/256	5/256	-3/256
10/256	-42/256	64/256	64/256	-42/256	10/256
10/256	-42/256	64/256	64/256	-42/256	10/256
-3/256	5/256	-42/256	-42/256	5/256	-3/256
1/256	-3/256	10/256	10/256	-3/256	1/256